	Application No.	Applicant(s)
Notice of Allowability	10/771,688	SUN ET AL.
	Examiner	Art Unit
	Christian Wilson	2891
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on the cover sheet wi OR REMAINS) CLOSED in or other appropriate common GHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-20</u> .		
3. The drawings filed on <u>03 February 2004</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority undan a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME. 	been received. been received in Application uments have been received of this communication to file	on No d in this national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives 		
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperso 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review Amendment / Comment of	in the Office action of ne drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	IIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	6. ☐ Interview S Paper No./ 7. ☐ Examiner's	formal Patent Application (PTO-152) Lummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance Statement of Reasons for Allowance CHRISTIAN D. WILSON PRIMARY EXAMINE

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DETAILED ACTION

1. Claims 1 - 20 are allowed.

2. The following is an examiner's statement of reasons for allowance: in claims 1, 13, and 18, applicant claims, in the context of the entire claim, a novel method of forming a trench with rounded corners where the second silicon nitride layer, thermal oxide layer, and second pad oxide layer are removed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art teaches methods of forming rounded corners in shallow trench isolation (STI) structures. In particular, Mehrad *et al.* (US 6,828,213) teaches a method using a silicon nitride layer formed over a pad oxide layer and then forming a thermal oxide layer.

 Mehrad *et al.* states explicitly that the nitride and oxide layers are left in the trench [column 5, lines 1-5].
- 4. A copy of the EAST search history is enclosed.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian Wilson whose telephone number is (571) 272-1886. The examiner can normally be reached on weekdays, 7:30 AM to 4 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christian Wilson, Ph.D. Primary Examiner

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CDW